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The Students of Worcester Polytechnic Institute

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TECH NEWS

VOL. 21

WORCESTER, MASS., DEC. 10, 1929

NO. 10

TECH CARNIVAL FRIDAY EVENING

Two Lower Classes To Vie For Silver Loving Cup

The preparations are nearly complete for the fourteenth annual Tech Carnival which is to be held Friday night in Alumni Gymnasium. The program is scheduled to begin at 7.45 p. m. with the Freshman skit as the first act, and there will be no dull moments until the Boynntonians cease playing at one a. m. Tickets are being sold by a man in each division and also by a man in each fraternity house.

Under the direction of Frank Keane the Freshmen are rehearsing their skit daily. It is entitled "Freshmen Peepers," and the members of the cast are John Henrickson, Thomas McLoughlin, Donald Kayer, Milton Prescott, Frank Keane, Emerson Holter, Donald Drake, William Drake, Robert Dunton and Louis Furman.

The Sophomores are also holding rehearsals each day this week. Curtis Covell is in charge of their act and it is called "Rambling Wrecks from Worcester Tech." The members of the cast are Earl Andrews, Arthur Peterson, Curtis Covell, George Pickering and Allen Belcher. Roger Hager will assist at the piano.

Since Major Howe is in charge of the Faculty act, it is expected that it will be unusually good. The program by the Musical Association is arousing much interest because it will be the first appearance on the Hill this year for some of the clubs.

The first Tech Carnival was held back in 1916. The program consisted of skits put on by each fraternity. It was not until several years later that there was any interclass competition. Then it was the custom for each of the two lower classes to put on side shows in the squash courts. Later they were allowed places on the regular program. The Faculty act was then

(Continued on Page 6, Col. 4)

DATE HAS BEEN SET FOR HALF-WAY THRU BANQUET

Lunt's at Sterling Chosen

The date for the Half-Way Thru Banquet of the Class of 1931 has been changed from Dec. 14th to Dec. 18th. This was made necessary in order to secure sufficient accommodations for the class. Lunt's Pavilion in Sterling has been decided on as the place for the dinner. A number of Tech banquets have been held there in the past and an enjoyable time has always been had by all.

Division collectors have charge of selling tickets for the banquet. These men are Carl A. Schiller, Henry Deane, Walker Hawley, Edwin Hosmer, W. N. Doubleday, A. G. Hall and F. A. Farrar.

It is hoped that every member will attend this banquet because it is probably the last time that anything of this kind will be held by the class before the Senior Banquet during graduation week. An entertainment is also being arranged that will please everyone.

FRATERNITY CONFERENCE IS HELD IN NEW YORK

Tech at Meeting

On November 29th and 30th Eugene Center was the delegate for the seven fraternities of Worcester Tech at the joint session of the National Undergraduate Interfraternity Council and the Interfraternity Conference which was held at the Hotel Pennsylvania in New York City.

The convention was opened Friday morning and the usual business such as calling the roll and receiving reports of committees was disposed of. In the afternoon the two conferences were addressed by Dr. R. L. Wilbur, Secretary of the Interior, and former president of Leland Stanford University. He expressed the opinion that the luxury and ease of fraternity houses worked hardship on students not accustomed to such economic advantages. Too great financial support by the alumni was held responsible for this condition. Friday night a banquet was held followed by speeches.

The most interesting part of the meeting was held Saturday morning when fraternity problems were discussed. Deferred rushing was the most important subject and the majority of the delegates were opposed to it. They came to the conclusion that a period of three weeks is sufficiently long enough for a freshman's mind to be concentrated on getting acquainted and on receiving a bid. Many of the large universities have given up deferred rushing and their fraternities begin the rushing at the opening of school. It is argued that in this manner school work is not so greatly affected as it would be during the middle of a semester.

(Continued on Page 6, Col. 1)

MURDER MYSTERY IS SOLVED BY DR. SMITH

Investigators Use Spectroscopes

The Chemistry Department of the Institute was instrumental in solving the mystery of the Casey-Bingham deaths that had baffled solution by the Worcester police for some time. Using spectroscopes in the Salisbury Laboratories the medical examiners aided by Dr. Maurice Smith, professor of chemistry, and Hiram Phillips, examined specimens of blood of a normal person, of blood from a guinea pig poisoned by carbon monoxide, and samples of blood taken from the dead bodies.

The spectroscope when used on the blood of the normal person gave a perfect spectrum, the gradation of colors ranging from deep red to violet and blue. In the cases of the carbon monoxide poisoning there was a sharp break in the gradation of colors caused by two sharp, black lines between which there was no color. These tests showed the deaths a clear-cut case of carbon monoxide poisoning.

This was one of the most puzzling cases which the Worcester Police Department has ever had; and it could not have been so easily and quickly solved without the use of the apparatus in the Salisbury Laboratories.

ATHLETIC COUNCIL AWARDS LETTERS

Managers Elected and Numerals Are Awarded

The Athletic Council held a meeting December 3 for the purpose of electing managers and awarding letters to the football, soccer and cross-country teams. Numerals were voted to the men successful in track and rifle competition. It was decided to recommend to the Student Athletic Association that the track "W" be changed so as to resemble the style of the interclass numeral awards, that is, crimson superimposed upon gray.

The activities visible in the tennis courts are a result of this meeting, also, since it was voted to construct a low board skating rink there for the use of students, and more especially, for the use of the hockey team, which is being organized by skating enthusiasts on the Hill. Although hockey is not yet a recognized sport on the Hill it is rapidly becoming more important. Last year the team, under the management of "Russ" Barnes, '30, enjoyed a fairly successful season, competing with local teams on the public rinks. This year, with the influx of material and increased enthusiasm, an even more successful season is expected. It is expected that interclass and interfraternity games may be scheduled.

The men who were awarded "W's" in football are: M. P. Finney, captain, J. T. Tompkins, Jr., manager, E. W. Carlson, J. Leach, O. R. Underhill, L. W. Edgeworth, D. F. O'Grady, A. C. Peterson, J. Maggiocomo, E. Rice, J.

(Continued on Page 3, Col. 2)

CALENDAR

TUESDAY, DEC. 10—

9.50 A. M.—Chapel Service.

Rev. Thomas Foxall.

WEDNESDAY, DEC. 11—

9.50 A. M.—Chapel Service.

Rev. Thomas Foxall.

4.30 P. M.—Interfraternity Relay Race. P. S. K. vs. P. G. D.; T. X. vs. S. A. E.; T. U. O. vs. L. X. A.; A. T. O. vs. S. O. P.

6.00 P. M.—Newman Club meeting at Sanford Riley Hall.

President Earle is speaker.

THURSDAY, DEC. 12—

9.50 A. M.—Chapel Service.

Rev. L. D. Miller.

11.00 A. M. Assembly. Speaker, Dr. W. E. Hocking.

FRIDAY, DEC. 13—

9.50 A. M.—Chapel Service.

Rev. L. D. Miller.

4.30 P. M.—Interfraternity Relay Race. P. S. K. vs. S. O. P.; T. X. vs. L. X. A.; T. U. O. vs. P. G. D.; A. T. O. vs. S. A. E.

7.45 P. M.—Tech Carnival at Gymnasium.

MONDAY, DEC. 16—

9.50 A. M.—Chapel Service.

President Ralph Earle.

4.15 P. M.—News Assignments, B-19.

GRAHAM IS ELECTED BASKETBALL CAPTAIN

First Game With Brown Dec. 20

At the practice of the basketball team last Wednesday, "Bill" Graham was elected captain of the team for the coming season. Although he was captain last year, his knee injury received in football kept him from playing very much basketball. He came back to the squad this year in good condition, but at last Friday's practice he wrenched it again.

However, he is expected to recover rapidly, and will hold the position as center. Much of the season's success depends on his accurate shooting.

Parker Smith, another of last year's varsity men who were prevented by injury from playing much, will probably hold one of the forward positions. The other forward position is being rushed by John Smith, '33, who has already made a reputation for himself in Worcester high school basketball. "Bill" Asp, forward of last year, and Gartrell are in line for the guard positions.

The first regular game of the season is with Brown on Friday, Dec. 20th, and the Engineers are expected to make a good showing. The varsity has been playing against the seconds about every day and have a practice game scheduled for this Saturday with the Whitinsville Community Center team at Whitinsville.

CLASS OF '79 WILL AWARD ESSAY PRIZE

Contest Expires April 12, 1930

At their fiftieth reunion the class of 1879 endowed an annual prize of fifty dollars to be awarded to an undergraduate who submits the best essay on some engineering subject written in an original, logical and popular style. Competition is open to all students of the Institute but there are several rules governing the competition.

The essay may have a minimum of two thousand words and its subject may range from precise and technical details to broad theories and developments. The essay must be intelligible and interesting, not only to engineers, but also to those having little technical education, and it must be suitable for publication in magazines. The class also stipulates that the writer show a precise and comprehensive knowledge of the subject, that he must not copy or abstract from any source and that he conform to the rules of good English.

The essay must have a logical arrangement, an appropriate title and suitable sub-headings and must be typewritten on paper 7 1/2 by 10 inches, with one inch margin on the right and bottom, and an inch and a half margin on the left.

The essays must be in Professor Z. W. Coombs' office before twelve o'clock, Saturday, April 12, 1930. The committee consists of President Ralph Earle, Professor Z. W. Coombs and Professor J. W. Howe.

DR. HOCKING TO PRESENT LECTURE

Talk Will Be Of Importance To Engineers

The Third Fuller Lecture for the college year 1929-30 will be presented at the regular Student Assembly, December 12 at 11 a. m. The speaker is to be Dr. William Ernest Hocking, Alford Professor of Philosophy at Harvard University, and a lecturer at the Naval War College, Newport, Princeton University, and elsewhere. He has announced that his topic to be "Engineering Morale and Esprit de Corps," a topic of vital importance to an engineering college as well of great interest to all undergraduates.

The Athletic Association will also award varsity letters at this assembly.

A. A. VOTES TO HAVE SKATING RINK SOON

Flood Lights to be Used at Night

At the recent meeting of the A. A. it was discussed and finally decided to build a skating rink on the tennis courts. Work has already begun on the rink and it is expected that it will be flooded the first cold night. Boards have been put up around the sides next to the fence and everything is in readiness for the first cold spell.

The main purpose of the rink is to provide a place for W. P. I. students to get outdoor recreation during the winter months. During evenings the flood lights on the gymnasium will be used, making the whole rink light as day. The rink is only for use of Tech students and will not be in any sense of the word a public rink.

Now that Tech has a skating rink it is possible that a hockey team can be formed. Last year an effort was made to advance hockey, and a team composed of Tech men played several games. Many Tech men are interested in a hockey team and there is plenty of good material available for one. Last year Mr. Higginbottom helped the

(Continued on Page 7, Col. 2)

TECH NEWS WILL HOLD SECOND MEETING TODAY

Constitution Will Be Revised

The TECH NEWS will hold its second meeting of the year today at 4.10 p. m. At that time discussion will be held and a vote taken to revise the section of the constitution on filling the vacancy occurring by the absence of the Athletic Editor.

Because of the withdrawal of the Athletic Editor the TECH NEWS is without an editor. This meeting will determine whether or not the position will be filled in case of the vacancy occurring again.

Applications for reporterships will also be considered and Freshmen and Sophomore candidates are urged to file their applications at this meeting if possible.

ATTEND THE "Y" CARNIVAL FRIDAY EVENING

TECH NEWS

Published every Tuesday of the College Year by
The Tech News Association of the Worcester Polytechnic Institute

NEWS PHONES | Business Park 4963
Editorial, Park 2278

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C. Eugene Center, '30

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H. O. Carlson, '31
W. T. Hawley, '31

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THE HEFFERNAN PRESS
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December 10, 1929

IS THIS FAIR?

A great deal is said every hour of every day, both pro and con on the subject of whether or not college athletes play the game and drudge for two hours every day in stiff and none too pleasant practice sessions during a whole football season either for their love of their Alma Mater or for the game itself.

That is a separate subject in itself and has no bearing on the matter at hand. The other phase, the individual financial gain, finds very little ground here at Tech, but the Athletic Department has always rightfully felt that the squad member receives more physical exercise in one week's football practice than he would in five weeks of the usual schedule of physical education for the non-team member, and as a small recognition of this fact he is exempted from these classes during the season. He is a healthy animal, the varsity athlete, and his workouts certainly give him enough stamina to last out three or four weeks of enforced absence due to an injury without having to bring himself back into condition by "making up" this lack of going through the strenuous sweating occasioned by periods of bowling, volley ball or a half-hearted game of small court basketball. In definite terms, just what is to be gained, either by the Physical Education Department or by the man himself who was injured during this last season of the sport in having him go through this more or less assinine procedure of making up his lost time in "Phys. Ed." classes?

The above, of course, applies only to the Freshman or Sophomore, but a similar line of reasoning applies to the man who has drugged steadily away for four years as a semi-substitute, who has been found good enough to be used in at least part of the games, has been injured in one of them, and yet has not been granted a letter during the whole period by the powers that be.

And so, we ask, is such a procedure conducive to the fellow's desire to serve Tech further in the line of sports? Most certainly not, and small blame can be attached to the surprisingly large number of men graduating who leave with bitter feelings toward this one phase of their college life.

A BAND AT TECH

It is generally acknowledged by all that a band lends color and zest to college activities. Many schools, colleges and universities realize this so keenly that the band holds a place as one of the leading extracurricular activities. Because of this view point, special efforts are put forth and sacrifices are made in order to have a good representative band at any cost.

The band at Tech, because of the tireless efforts of a few faithful ones, has existed about a year. It began with tremendous handicaps but these were gradually overcome although lack of support and cooperation, some derision and even opposition existed. Many, however, have treated the band cordially, have been kind in overlooking its mistakes and have been liberal with applause and encouragement.

Now comes a time for decision. Would the student body prefer football games without the band and silent intermissions at the basketball games, to the pleasing zest of a lively march or a little humorous musical selection? Is it preferable to go to Assembly and proceed to your seats without music to help enliven the few moments preceding the opening exercises?

If the band has won a place for itself, and if it is wanted as a permanent feature here at the Institute, the musicians must unselfishly come forward and offer their services out of pure loyalty to their Alma Mater. The band needs drummers who can read and play drum music, or are willing to learn, a base horn player is badly needed and more trombones are wanted. We have only two clarinets instead of five or six that we should have. The band will be unable to function at the basketball games if there is a lack of the fundamental instruments necessary.

There seems to be a tendency of some of the musicians of last year to desert the band. This should not be. It is only by their loyalty that a successful band can be made to exist. If we could hold the seasoned players, and then add each year the desirable Freshmen, we should soon have a band which could ably represent Worcester Tech in many places about town and elsewhere.

Many other extracurricular activities are seasonal. The band is not. It should be a service organization ready to go on duty at the first meeting of the student

body in September, always on the job during the school year and, finally, functioning ably at the Class day and Commencement day exercises. Let everyone lend a hearty support to the band and, especially, let all the musicians in the Institute, whether they play band instruments or not, join together to see to it that the band becomes a permanent, successful and worthy feature at Worcester Tech.

The rehearsals from now on will be held at 4:15 Wednesdays. Come out to rehearsals without further invitation. We want all who can play to join us at every Assembly. Bring your instrument along and help us to make these Assemblies a success musically.

PLEASE SHARE THE SIDEWALKS

Unfortunately Tech's sidewalks are not yet built to accommodate four, or even three, persons walking abreast. This has been realized long before by the upperclassmen, but the Freshmen seem to think that it is their own undisputed right to march down each and every walk in parade formation, two abreast, and, engrossed among themselves in the deep intricacies of Trig and English I, they force the upperclassmen to take to the snow or the gutter, or both. Before snowfall this practice was noticeable but less objectionable although still detrimental to the grass. However, with the walks becoming gulleys between snow banks, if the wearers of the crimson and gray caps would but notice, it is usually not one of their number, but a member of one of the upper classes, or even an occasional faculty member who, mindful of the proprieties among people, sidesteps and shares the available room with his fellows.

The Freshmen should get enough practice in walking single file when meeting other men rounding the corner of the tennis courts in coming from Sanford Riley Hall, so if they could carry out this practice, not only out of deference, but out of mere politeness to the rights of individuals on the other walks of the campus, they would be the better regarded by all.

TECH MEN ARE URGED TO BUY CHRISTMAS SEALS



SEALS

A worthy cause may be aided at small expense to Tech men by buying Christmas seals. The proceeds derived from the sale of these seals is utilized in the work for the prevention of tuberculosis. All Tech men are urged to help in this work.

RING IN HEALTH—BUY SEALS



Some decisions can't be put off till tomorrow!

The basketball player who took very long to decide between passing the ball and trying for a basket would soon lose his chances to do either.

And the man who keeps putting off his decision in the choice of a career may lose his chance to be very effective at anything. Isn't it true that not a few men

up to their senior year are still very uncertain what work to take up after graduation?

The result is that many a born artist, becomes an indifferent engineer, and many a potential lawyer, a poor salesman.

Put yourself under the microscope and then—*be* yourself.



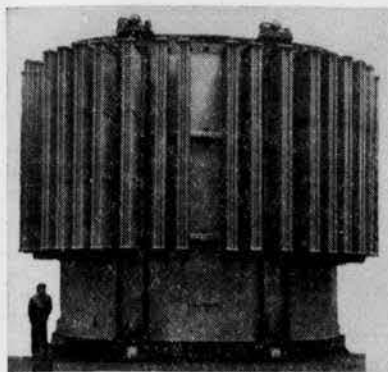
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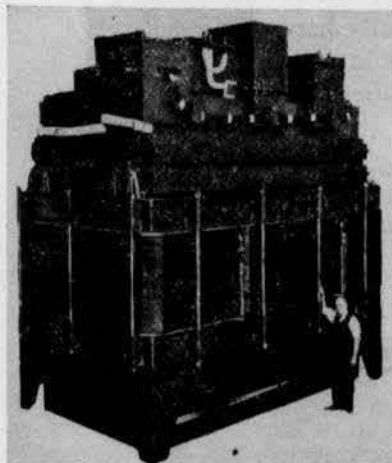
Strengthening of bridges and the lowering of railroad tracks eighteen inches at one point to permit clearance, were necessary to transport the four largest electric power transformers ever built from the Sharon Plant of the Westinghouse Electric & Manufacturing plant at Sharon, Pa., to Roseland, N. J., near Newark.



The world's largest transformers are being used to transfer power at the Pennsylvania Power & Light Company's plant at Bushkill, Pa., to the Public Service Electric & Gas Company's system in New Jersey. Fifty-six freight cars were necessary to carry the transformers and parts over the Erie Railroad.

An army of men almost equal to that required to move a three-ring circus was required to load and prepare the huge transformers for shipment. Each transformer is 35 feet high, weighs approximately 300 tons, and requires a floor space 22 by 23 feet. More than three tank cars of oil, or 32,000 gallons, were required to fill each transformer.

The transformers are rated at 220,000 kv., but were tested at 570,000 kv., the highest test voltage ever applied to a power transformer. The core and coils in each transformer contain sixty-three tons of laminations and fifteen tons of copper windings. There are more than 32 miles of wire in the copper windings in each transformer.



Winding capacity of the four transformers is sufficient to furnish power to illuminate 6,000,000 forty-watt incandescent lamps, the kind most popular in home illumination, or a total of approximately 200,000 ordinary six-room houses, or all the homes in a city larger than Cincinnati, Ohio, according to estimates of Westinghouse engineers.

The weight of each transformer, as prepared for shipment, was 270,000 pounds, one of the heaviest individual units ever shipped on single railroad cars. It was necessary to utilize a special depressed type of equipment to

A. A. AWARDS

(Continued from Page 1, Col. 3)

son. A. F. Townsend was elected manager and W. H. Hinchcliffe and F. A. F. Kane, E. R. Delano and P. O. Ander-Bickford, assistant managers for the ensuing year.

The following men were awarded numerals in football: Lapenta, Lockwood, Osipowich, Barks, Nyquist, Andrew, D. Rice, Larson, Smith, Swipp, Lanciault, Sarkozy and Ekberg.

J. P. Pierce and W. N. Burr were awarded their "W" in cross country, and Mace, Hall, Buell and G. E. Pierce were awarded their "cwc."

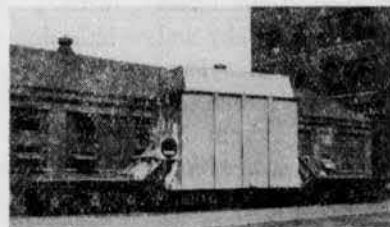
Track numerals were awarded: McGinniss, South, Greco, Burr, Sullivan, Palaski, Deslauriers, D. Rice, Lyman and Buell.

Letters in soccer were awarded to the following men: W. H. Rice, H. C. Hart, U. Tillan, A. O. Ericson, C. G. Larson, H. A. Hammer, L. Skuropat, P. C. Hurley, R. Duchacek, C. N. Whitaker, E. J. Bayon, C. B. Walker and J. P. Tulka. R. Marden was elected manager for the ensuing year and W. F. Bausman and R. Covell were elected assistant managers.

Numerals in soccer were awarded to: C. I. Olson, M. Azzam, A. Poulsen, R. Munson, P. C. Hurley, R. Voight, R. W. Hurley, H. A. Hammer, E. C. Ostlund, A. Yelle and E. Palin.

Numerals in rifle were awarded B. C. Gawlowicz, H. O. Allen, H. A. Sorensen, Whitaker and T. Meschicosky.

permit clearance under vehicular and cross line bridges along the right of way. To further meet transportation requirements, the tracks at Caldwell, N. J., were temporarily lowered 18 inches to permit clearance.



In addition to the four special depressed cars, 18 well type cars, 14 gondolas, six ordinary flats and 14 oil tank cars were necessary to handle the consignment, the hauling of which was done by one of the Erie's heavy traffic locomotives.

Each transformer was packed in a specially designed shipping tank. In order to meet the loading requirements of the Erie Railroad, the oil was drained from the transformers and the shipping tanks were filled with dry nitrogen gas to preserve the insulating qualities of the coils in transit.

The huge transformers are located at the northeastern end of the 220,000 volt system which joins the systems of the Pennsylvania Power & Light, the Philadelphia Electric Co.

Kismet

She snuggled closer as he questioned her, "Do you believe in fate?"

She leaned back with a contented sigh: "I think what is going to happen will happen."

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STUDENT BRANCH A. S. C. E. MEETS

Prof. Howe Joins Summer School

PROF. MYER ATTENDS HIGHWAY MEETING

Prof. J. W. Howe of this department has enrolled in the summer school for teachers of civil engineering to be held this coming summer at Yale University. This summer school is sponsored by the Society for the Promotion of Engineering Education. Worcester Tech has been represented in every previous school, similar to this, held at Yale and other colleges. The summer school for teachers of physics in engineering colleges held last summer at M. I. T. was under the direction of Prof. A. W. Duff.

Prof. C. F. Meyer is making a trip to Washington, D. C., December 12 and 13, to attend the ninth annual meeting of the Highway Research Board. Practically every technical school and office in the country will be represented at this meeting. A symposium of papers on the latest experiments and developments of highway construction and finance will be read and discussion will be held. All this new material will be available to the Institute next term.

The Student Branch of the American Society of Civil Engineers will hold their next meeting Monday, December 16, at 7:30 p. m. in Boynton Hall, Room 19. The speaker will be Mr. Kenneth Mossman, civil engineer of the Worcester City Engineer's office. He will describe the recent work of triangulation survey of the City of Worcester of which he has had charge. As the program for the evening is one of unusual merit and value, all interested are strongly urged to attend and derive full benefit.

The Worcester Society of Civil Engineers will hold a supper meeting at Sherer's Restaurant at 6:30 p. m., December 12. A topic of great importance to the United States, the Muscle Shoals project, and which has confronted the nation for over a hundred years, will be discussed by Mr. Frederick Crawford Williams, the present city engineer of Pawtucket, R. I. Mr. Williams, who was connected with the project during practically the whole period of the design and construction of the Wilson Dam, is well qualified for the task of describing this great work. Since this subject is of such general engineering interest, a large attendance is expected from affiliated societies.

PHYSICS NOTES

At the weekly Physics Colloquium held last Tuesday in the Salisbury Laboratories, Dr. Arthur W. Ewell and Dr. Samuel J. Plimpton were the speakers. Dr. Ewell had for his subject, "Thermal and Electrical Conductivity" and Dr. Plimpton spoke on "Methods of Measuring Very Small Electrical Charges."



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APPLICATIONS ARE BEING MADE FOR FELLOWSHIPS

Foundation Established by G. E.

The Charles A. Coffin Foundation, established some years ago by the General Electric Company, has announced that applications are now being made for the Charles A. Coffin Fellowships for 1930-31.

The terms of the Charles A. Coffin Foundation made provision for the award of five thousand dollars annually for fellowships to graduates of the universities, colleges, and technical schools throughout the United States, who have shown, by the character of their work, that they could, with advantage, undertake or continue research work in educational institutions either in this country or abroad.

The fields in which these fellowships are to be awarded are Electricity, Physics and Physical Chemistry.

The committee, composed of Mr. Gano Dunn, representing the National Academy of Sciences, Mr. R. I. Rees, representing the Society for Promotion of Engineering Education, and Mr. Harold B. Smith, representing the American Institute of Electrical Engineers, desires to make the awards to men who, without financial assistance, would be unable to devote themselves to research work. The fellowships will carry a minimum allowance of five hundred dollars. This allowance may be increased to meet the special needs of applicants to whom the committee decides to award the Fellowships.

Candidates for the Charles A. Coffin Fellowships should file applications on forms provided for that purpose, and obtainable from the secretary. Applications will be welcomed from seniors desiring to do research work as a part of the requirements for an advanced degree as well as graduates of universities, colleges, and technical schools, but any award to a senior will be conditioned upon his graduation.

The committee requests that all applications first be sent to the dean of the educational institution at which the applicant is, or has been, in attendance within the year. The committee desires that the dean or other college executive in turn file all the applications received by him at the same time, together with a statement naming the two men applying who in his opinion or the opinion of the faculty are best qualified to receive the award.

Applications must be filed with the committee by March 1, 1930, and should be addressed to Secretary, Charles A. Coffin Foundation, Schenectady, N. Y.

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HONOR SYSTEM FIRST INTRODUCED IN 1779

Four Colleges Claim First Use

This is the second article of a series on the subject of the honor system. The first article in last issue of the **TECH NEWS** told why the honor system is being discussed. The series will be continued in succeeding articles.

Article No. 2

Four colleges claim the honor of having been the initiator of the Honor System. William and Mary College claims to have begun the use of the system in 1779. South Carolina College (now the University of South Carolina) claims to have begun the use of the Honor System at its founding in 1801. The University of Virginia claims to have initiated the system in 1842. Finally, Washington and Lee University puts forth claims to having been the originator of the Honor System, their claim dating back to the administration of General Lee as president.

It is impossible to say exactly which of these colleges is in fact the mother of the Honor System. Probably William and Mary College did have some kind of system under which the students were placed upon their honor, and under which an Honor System prevailed in spirit. Perhaps the honor of the students was appealed to at South Carolina College from the time of its inception. But the preponderance of the evidence seems to show that the University of Virginia was the first institution to make definite plans for an Honor System, to draw up an honor code, and to adopt a definite plan of legislation, control and system of penalties.

Washington and Lee's claim dates back to the administration of General Lee, following the Civil War. Therefore, the University's claim antedates that of Washington and Lee by a score of years or more. However, Washington and Lee can indisputably lay claim to having the oldest complete student Honor System in the United States, for at that institution the Honor System embraces every phase of student life.

The Honor System originated in the South. It spread slowly at first, because it was a marked departure from the Old World idea of governing students: it was a pioneer step in the education.

(Continued on Page 5, Col. 4)

FRESHMEN

The original
Tech Barber Shop
Come to

The Fancy Barber Shop

89 Main St. Directly over Station A
GOOD CUTTING
NO LONG WAITS
SIX BARBERS

Established 1821 Incorporated 1918

ELWOOD ADAMS, INC.

154-156 Main Street
WORCESTER, MASS.

Hardware, Tools and Paint
Lighting Fixtures and Fire
Place Furnishings

Men's Standish Brand Shirts with Two Laundered Collars

Standish Brand Shirts are appreciated by men who want the comfort of roomy, long shirts—made fuller and longer than any other shirt. Splendid patterns with guaranteed fast colors.

THE GREATER
BARNARD, SUMNER & PUTNAM CO.
Telephone Park 4850—Connecting all departments

HEADQUARTERS FOR
Drawing Instruments
Slide Rules
Mathematical Supplies

C. G. LOWELL & CO.
31-33 Pearl Street, Worcester

PROF. Z. COOMBS CHAPEL SPEAKER

Talks About Life Of Ichabod Washburn

The last time that I spoke at Chapel I told about John Boynton, but Ichabod Washburn was just as much the founder as John Boynton. For Ichabod Washburn had an idea for the school of engineering long before Boynton's plan was evolved.

Ichabod Washburn was born in Kingston, near Plymouth down toward the Cape, August 11, 1796. There were three children, himself, his brother, Charles, who by the way was a grandfather of our good friend, Charles G. Washburn, and his sister. His father was a sea captain who died at the age of twenty-six, leaving a widow and these three children to bring up. The widow by using her loom and spinning wheel was able to give them a bringing up. At the age of nine years he went to live in Duxbury and there learned the harness maker's trade; in 1813 he moved to Plymouth where he learned the cotton loom operation, and came to Leicester in 1814 to learn the trade of a blacksmith and from there he went to Auburn as a blacksmith's apprentice. From that point he went to Millbury as a journeyman and subsequently engaged in the manufacture of ploughs. Coming to Worcester when he was twenty-eight years old he engaged in business here. But he needed capital and there was a wealthy man named Mr. Daniel Waldo who had confidence that he would succeed and he advanced him money on his note. It was the start he gave him, that really made this young man.

About the year 1824, Ichabod Washburn began to manufacture wire. At that time the methods were crude and it meant that during the day a man could make very little wire. Ichabod Washburn introduced the wire drawing block which for over one hundred years has hardly been improved.

Ichabod Washburn with his brother, Charles, who joined him at that time, went on to great things. Some years afterwards, the elder Stephen Salisbury built for him a shop on Millbrook River. That was the beginning of the great plant on Grove Street, and later he and his brother started another shop down on Millbury Street.

What did he do with great wealth that he accumulated? Is there any man in this city or in any other city doing the good with his money that he did? He started at the very beginning to do good with the money coming to him.

He founded Memorial Hospital on Belmont Street; founded also the home for the aged for which he gave a large sum. He also gave the funds to found Mechanics Hall. He originally endowed the Washburn Shops and a dozen or two ways could be enumerated in which he has helped the poor and sick.



M. E. GAINDER
Development Engineer
California Institute of Technology, '26



ROBERT SPARKS
Field Research Engineer
Lehigh University, '27



W. J. KROEGER
Tennessee Stations Engineer
Carnegie Institute of Technology, '27

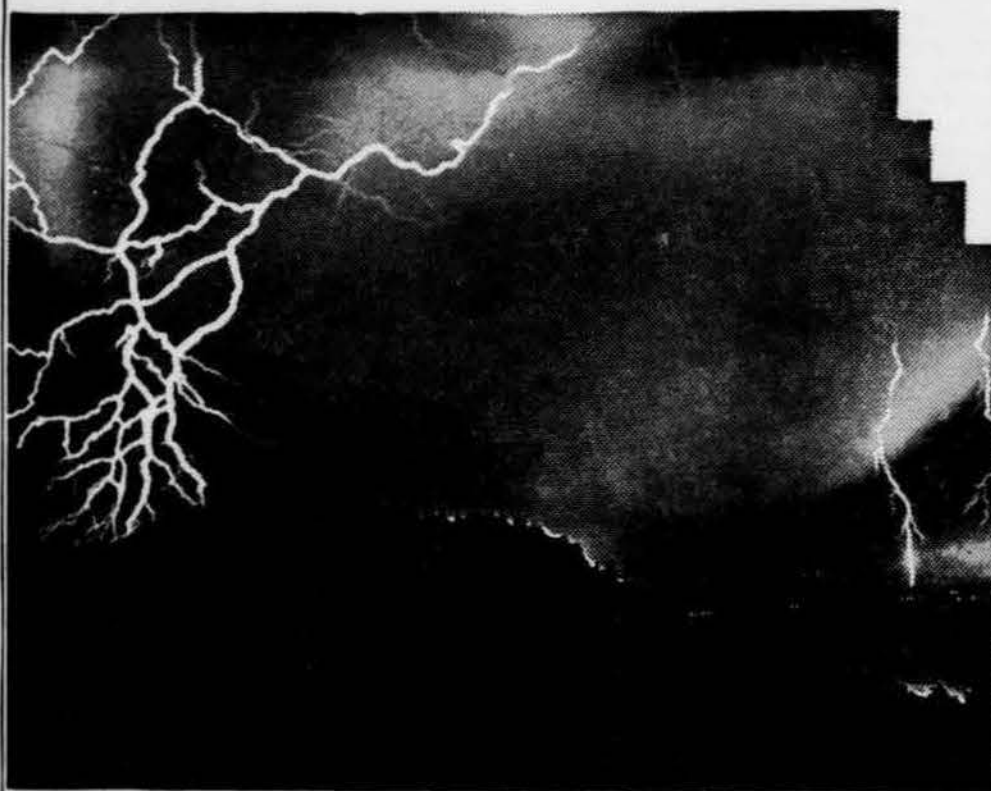


P. E. STEPHENS
Field Station Engineer
Pennsylvania State College, '27



E. R. WHITEHEAD
New Jersey Stations Engineer
University of Colorado, '28

WHAT YOUNGER COLLEGE MEN ARE DOING WITH WESTINGHOUSE



LIGHTNING HAS LONG BEEN A COSTLY RAIDER OF POWER LINES

Wild lightning meets his master . . .

REMEMBER how you used to sit on the porch during a thunderstorm and shudder just a little at the forces that seemed to tear open the sky and shake the hills? Electrical men have often shuddered in grave seriousness over those same forces. For lightning has been a costly raider of power lines.

Now, however, many means of defense are available, and many more are being developed. Science has been studying lightning, and experimenting with it. Down in the mountains of Tennessee a group of Westinghouse men have been making photographic records of the voltages developed by lightning, with the cathode-ray oscillograph and the klydonograph. Guided by their findings, another group in New Jersey is enabled to reproduce lightning arti-

cially, and study its effects on a high-tension line. And in East Pittsburgh, with a generator that will produce lightning strokes equivalent to 35,000,000 horse-power and with a laboratory that duplicates power line conditions, others are learning new facts about the behavior of protective devices.

Much of this work is carried on by young men recently out of college. Their achievements will save millions for power companies, and eliminate many hazards to life in substation operation.

Lightning jumps the gap between these Westinghouse arcing horns, and spares the insulators.



Westinghouse



EXTRA — SENIOR CIVILS, IN "THE CIVIL SURVEY", SELECT ALL-AMERICAN FOOTBALL TEAM — EXTRA

FINNEY NAMED CAPTAIN— TOMPKINS IS MANAGER

There have been a number of All American football teams but none of them approach the team selected by the "Civil Survey." This paper, sheltered in the protective walls of Boynton Hall in the Senior Drafting Room, is unique in that only one copy is printed and the paper is entirely supported by the staff itself. Thus one may easily perceive that any football team selected by the staff of the "Civil Survey" will be one selected by the un-

biased judgment of a group of intelligent men.

When the difference of opinion evidenced by the various "authorities" came to the attention of the staff of the paper, great indignation was shown by said staff. Men of pronounced ability were not even mentioned and others who were obviously inferior were given their positions. Great was the hue and cry and steps to correct this injustice were immediately taken. It was found that at least five members of the staff had seen every important game of the season and hence

were well qualified to make a selection.

In the backfield are four men who comprise a quartet of great versatility. One of them, "Red" Leach the great right half back is so versatile that he played end the past season. "Myrt" Finney was unanimously selected to call the signals and captain the team. "Danny" O'Grady, whose clean cut features always delight the crowd, is at left half back. He took the position with little opposition from the others. "Les" Edgeworth, the pounding Sophomore, made good at fullback. He can outkick other contenders for the job. At end the staff selected "Art" Peter-

son to guard the right extremity and Carl Rylander, the squarehead Dane, to take the other post. Rylander is a center, but other contenders for end positions were almost unknown to the staff so Rylander was selected. "Ed" Delano and "P. O." Anderson get the tackle positions. They were easily selected by the staff because of their great experience. At guards the staff had a tougher job. Pagnoni, Underhill and Rice were all considered. "Red" Underhill carried more weight so got one position. Pagnoni and Rice were even but Rice had played longer so was selected. Pagnoni got the job of

utility man over all contestants. "Jock" Maggiacomo was chosen for center. He gave fine performances all season and well merited the job. The staff chose "Tommy" Tompkins as the man to manage the team and guide it to the best of his ability.

Some may object to these selections on the basis that members of the staff are included in the team. The staff wishes to allay your fears by announcing that these men did not vote when their positions were being considered.

The staff maintains that for an unprejudiced selection the above team is second to none.

COLLEGE JOURNALISM

There has come the complaint generally from the alumni of all American colleges that the editorial tone of college newspapers is not in keeping with the serious responsibility which should be assumed by the men who represent the campus in print. Discussion of trivialities, a flippant disregard of conventionalities taken seriously by an older generation, an assumed position of boredom and ennui toward serious things in life, a "smart Aleck" indifference to the thoughts and feelings of other people—these are some of the charges lately brought against the college editors. Now and then they are actually charged with viciousness or ill will, and a perusal of some of the editorials in the larger college journals might well lead the writer to some such conclusion. Undergraduate editorials do often contain some rather vicious digs at conditions as they exist; and once the editor is led to believe that such conditions are the result of the planning of an older generation, he seems all the more eager to attack them.

One should recognize that there is a distinct reason for the present tone in college journals, however, and while it may not be an extenuating reason, it is still a reason. It is chiefly this: A group of men constituting the board of a college publication find themselves obliged each day to fill a certain amount of white editorial space with printing which shall read like opinion. There may be two, three or four of these editorials to write, and each should represent a subject well-discussed. In the first place, there are very few newspapers in the whole country, let alone college newspapers, which print stimulating, thoughtful editorials each day. The gift of writing, not occasionally, but continually, editorials which will interest people and make them think is given to but few people in the world. Therefore is it any wonder that a group of men on the editorial board of a college paper often find themselves hard put to it to produce each day editorials which contain definite ideas? Editorial ideas come only with reading, mixing with many classes of people, and some contemplation. The college editors are students. With the amount of reading to be done in courses, they do not have the time and zest for reading the magazines and newspapers that editors of regular journals must read. They make this work a side line.

In most cases no college credit is given for the amount of reading necessary for the production of editorials. Therefore the reading isn't done, and the editorials are frequently shallow as a result. The young editor's life is a rush. The curriculum in any American college is taking up student time increasingly. . . . No newspaper will run itself; and the college editor and his board find themselves obliged to get out the paper each day and at the same time fill it with editorial opinion—and yet also keep up with their studies.

Which is sacrificed, studies or editorials? It's usually the editorials.

When there is a lack of ideas in any editorial office the easiest way in which to fill space is to attack something. The object of the attack matters little. All that is necessary is something already in existence, and a Menckenesque manner. One needs neither ideas nor much skill to imitate Mr. Mencken.

As the case stands now, college jour-

SENIOR MECHANICS TO SPEAK ON SUMMER-WORK

Worcester Branch to Meet Wed.

The next meeting of the American Society of Mechanical Engineers will be held December 10, at seven p. m. in the M. E. lecture room. Talks will be given by Herbert W. Davis and Aarne A. Luoma, who will speak on their summer experiences with industrial plants, and by Charles L. Wright, who will speak on the A. S. M. E. convention. Following this there will be discussion by members of the society.

Last year such a meeting as this proved very interesting according to many of those who attended. The speakers answered many questions which were asked of them and this added to the interest of their talks. Refreshments will be served at the end of the evening's activities.

Many members of the local branch of the A. S. M. E. are planning to attend the Worcester branch meeting at Faraday Hall, Worcester Electric Light Company, 66 Faraday Street, on Wednesday, December 11. Mr. E. Sieger of the Carboly Company of New York will demonstrate the uses of carboly by a special lathe set-up. It is expected that this will be a very interesting meeting as the subject of carboly is of great interest at the present time.

MAKE-UP EXAMINATIONS ON JANUARY SECOND

No Registration After Dec. 19th

In keeping with the policy of the Institute, make-up examinations will be given to students having a deficiency in a second term subject, on January 2, 1930, to allow them if possible a passing mark in the course, thereby removing the condition.

The last day for registration will be Thursday, December 19, 1929, and the required students are urged to submit their names to the Registrar before that date, if possible.

For late registration there will be a nominal fee of five dollars, but, no registration will be accepted within forty-eight hours of the time scheduled for the exams.

Only those students that have received a final mark of E in a subject are eligible to take the examinations. No student with an F grade in a subject will be allowed to take an exam in that subject.

These examinations, to be given in January, are only for **Second Term Failures**.

ials are the only activities left in student hands. Athletics are in the hands of alumni and graduate coaches; dramatics are handled by a paid coach and faculty; debating has become part of the curriculum. Is it not possible that the future may bring some kind of professional help to the men who direct student opinion—The Dartmouth Magazine.

UNITED SHOE REPAIRING CO.

59 Main Street

TECH STUDENTS GIVE US A TRY

A Good Barber Shop Near Tech

On the ground floor

Excellent Barbers

Good Service and Sanitary

Court House Barber Shop

125 Main Street

OPEN FORUM

To the Editor of the TECH NEWS, Dear Sir:

I should like very much to bring to the attention of the student body the childish marking up of notices posted on the Institute bulletin boards, especially in Boynton Hall. It seems to me that there are enough constructive things to be done around the Hill without wasting time practicing such foolishness. The author of these "clever" changes and additions to notices might well spend the extra energy he seems to possess in writing a new college song for instance.

Another improvement would be the systematic removal of obsolete notices so that the new ones would receive the attention they deserve.

The unfavorable impression which untidy bulletin boards make on visitors to the Institute is, it seems to me, reason enough to correct this condition.

Don't be different. Help to create things and help the Institute. Don't be seized by an unnecessary instinct to become destructive.

A Senior.

HONOR SYSTEM

(Continued from Page 3, Col. 5)
ational field, taken in a pioneer period of a new country—the United States—by pioneer spirits in the realm of education and progress. It is a significant fact that the system originated in this new democratic country.

After the Civil War the Honor System spread faster. Many other southern colleges began to adopt the system, and many colleges in other sections of the United States began to recognize its values and to institute it. From 1860 to 1890 the number of colleges using the system increased greatly. From 1890 to 1910 the number increased still faster. In 1911 more colleges adopted the system than in any other year up to that time. From 1911 to the present there has been a steady increase in the number of colleges that have adopted the Honor System. At the present time approximately thirty-nine per cent of the colleges and universities of the United States have it.

The system as we have it today is the product of a process of evolution. As conditions have changed, the mechanisms and means of enforcing the Honor System have had to be changed in order that pace might be kept with progress. Today no two do

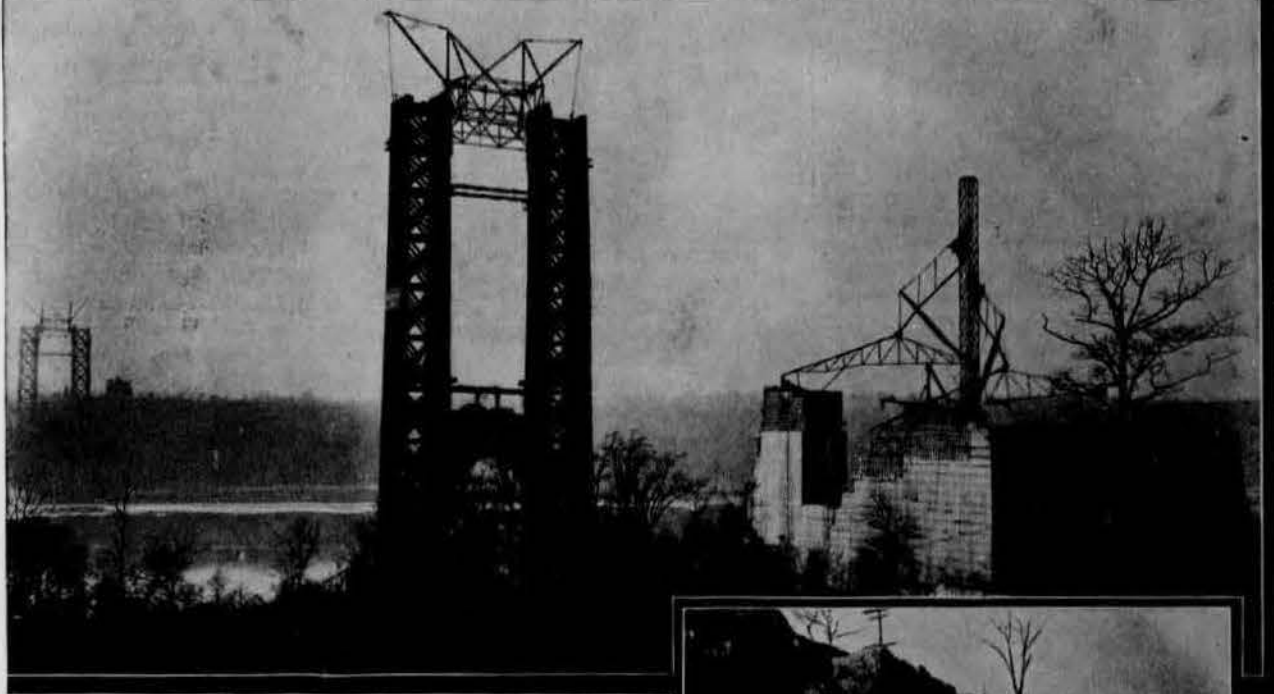
or can have exactly the same Honor System on account of the varying conditions that are found in the different colleges.

The system, as it was inaugurated at the University of Virginia, came as a solution of the problem of handling the students. A laxness had grown up in the University with regards to student honesty. The Honor System was greatly needed. It evolved. It was the product of the long-visioned idealism and the formidable courage of Thomas Jefferson, who was chairman of the first Board of Visitors of the University. When differences between the faculty and students were referred to the Board, under the leadership of Jefferson that body usually were very lenient with the students.

In short, the system was able to be inaugurated at the University of Virginia on account of the arrangement of the buildings, Jefferson's ideals of school management, the existing social conditions in the South at that time, and the strong Christian character of the professors at the University during its early history.

Can there not be great worth in an institution that has existed in many excellent institutions for nearly a century?

KOEHRING



Anchorage for the Longest Suspension Span

A bridge with a main suspension span of 3500 feet, the longest in the world, will soon cross the Hudson river at New York. Suspension will be maintained by four 36 inch cables supported on steel towers 635 feet above the water level.

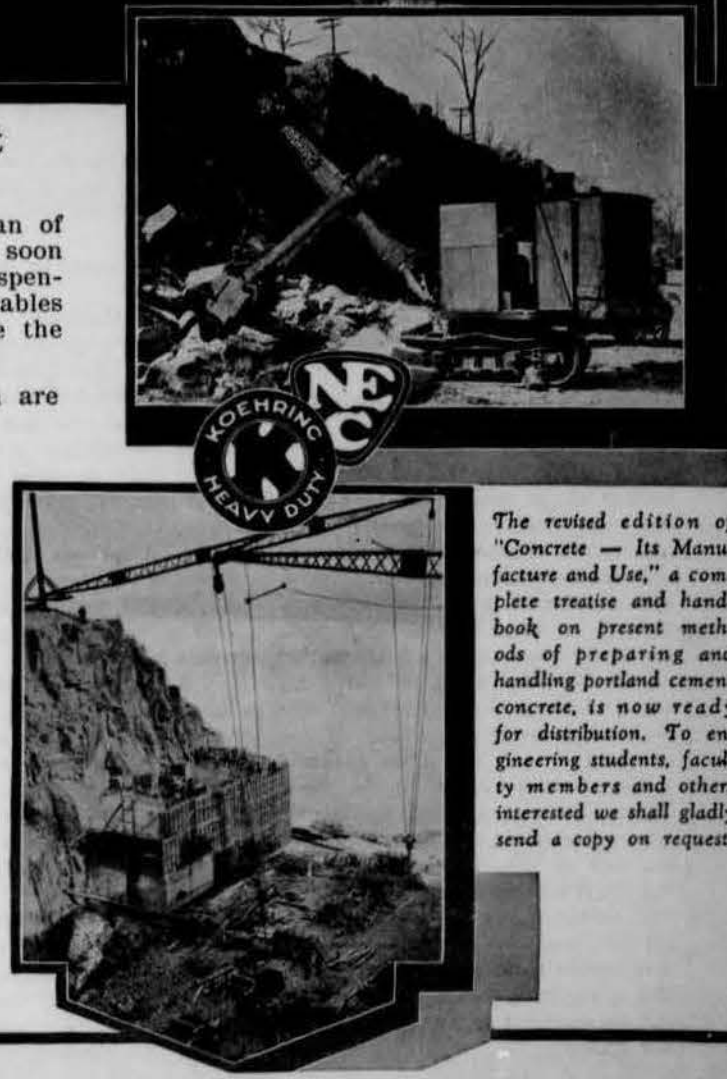
Abutments on the Fort Lee approach are shown in preparation in the views at the right. Two Koehring Heavy Duty products, a power shovel for the rock excavation and a paving mixer for turning out the Dominant Strength Concrete, were used in this work.

The massive New York anchorage above, 200 feet by 300 feet ground dimension and 125 feet in height, contains 110,000 cubic yards of quality controlled concrete mixed by two Koehring Heavy Duty Mixers.

Another identification of the Koehring re-mixing action with a structure built to endure!

KOEHRING COMPANY
MILWAUKEE, WISCONSIN

Manufacturers of
Pavers, Mixers—Gasoline Shovels, Cranes and Draglines
Division of National Equipment Corporation



The revised edition of "Concrete — Its Manufacture and Use," a complete treatise and handbook on present methods of preparing and handling portland cement concrete, is now ready for distribution. To engineering students, faculty members and others interested we shall gladly send a copy on request.

TYPEWRITER COPYING that is Neat, Accurate, Ready when promised.

FRATERNITY LETTERS AND NOTICES Duplicated by 100's, 1,000's or more.

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CARRIE F. BROWN'S LETTER SERVICE

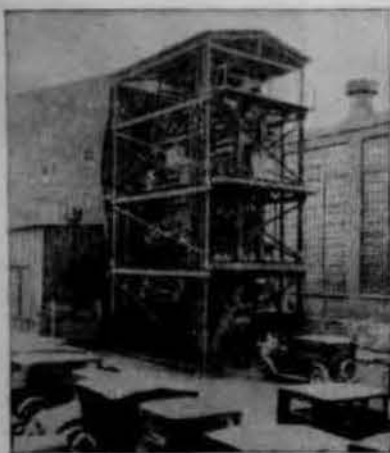
WESTINGHOUSE SOLVES BAD PARKING PROBLEM

Parking Machines to be Installed

A possible solution to the serious automobile parking problem is the unusual and unique automobile parking machine developed by the Westinghouse Electric and Manufacturing Company.

Parking the car for the theatre or the dance is no longer a serious problem with "parking machines." The machine consists of two endless chains passing over wheels at the top and bottom. Platforms are suspended between these chains, each providing space for one automobile. The housing for the machine is unique, having no floors. The machine is very flexible in its application. It may be built into a theatre, apartment house, department store, garage or wherever quick parking is a problem.

Machines are parked vertically as shown in the illustration, each platform providing for one car. It will deliver the car required, and only that car, by the insertion of a key, check, or coin in the slot. The delivery of the car is entirely automatic, thereby doing away with the necessity of attendants.



One of the many applications of the new automobile parking machine is in apartment buildings. This photograph shows a proposed method of installation in an apartment house.



This four story automobile parking machine holds eight cars. One automobile is shown ready to be driven on to an empty stall.

FRATERNITY CONFERENCE

(Continued from Page 1, Col. 2)

The conference defined a house mother as "a woman old enough to have the judgment and understanding of a mother of sons of college age, who will act as social mentor for a fraternity chapter, help in the administration of its house and do such work about the house as the average mother of the members would do about the home, due regard being given to the social and financial standing of the members and the size of the chapter."

There was a debate on the topic, "Resolved: that national Greek-letter fraternities should co-operate to engage on each of the several campuses of the larger colleges a salaried man who will supervise the business affairs of the chapters there located." The general opinion seem to be, however, that the saving from such a method would not be sufficient to pay the salary of the manager.

CONSTITUTION IS DRAWN UP BY '33

New Article Concerning Fines Is Adopted

Article I. Name.

The name of this class shall be "The Class of 1933 of Worcester Polytechnic Institute."

Article II. Members.

The members of this class shall be those persons registered on the books of the Institute in the Class of 1933.

Article III. Officers.

Sec. 1. The officers of this class shall be president, vice-president, secretary, treasurer, auditor, historian and such members of the Tech Council as are called for by the constitution of that body.

Sec. 2. The president shall preside at all meetings.

Sec. 3. The vice-president shall assume all duties in the absence of the president.

Sec. 4. The secretary shall keep a record of all business and attend to all class correspondence.

Sec. 5. The treasurer shall have charge of all class funds and the collection thereof. He shall keep an accurate and permanent account of all money transactions and shall present to the Tech Council and the class a duly audited report before the end of his term of office. He shall further provide a bond of five hundred dollars, the premium of which shall be paid by the class.

Sec. 6. The auditor shall examine the books of the treasurer before a report of these books is made to the class.

Sec. 7. The historian shall keep a permanent record of all class activities and the activities of the individual members of the class while at school.

Article IV. Elections.

Sec. 1. Candidates for president, vice-president, secretary, treasurer, auditor, historian and members of the Tech Council shall be nominated by a nominating committee composed of one member from each division, elected by members of that division during the first week of the semester. Nominations by this committee must be made during the second week of the semester.

Sec. 2. There shall be at least four nominations for president.

Sec. 3. Elections shall take place during the third week of the semester, a plurality vote being necessary for election.

Sec. 4. Following the election for president, the two highest remaining candidates shall be voted upon for vice-president.

Sec. 5. All elections shall be by secret ballot.

Article V. Meetings.

Sec. 1. Meetings may be called at the discretion of the president or upon a written petition of ten per cent of the members of the class.

Sec. 2. A written notice of such meetings shall be posted by the secretary at least two days preceding said meeting.

Sec. 3. A quorum shall consist of a majority of the class.

Sec. 4. No member shall be permitted to vote at meetings who has not paid his dues.

Sec. 5. The rule of procedure shall be according to Roberts' manual.

Article VI. Committees.

Sec. 1. All committees shall be appointed by the president unless otherwise directed by the class.

Sec. 2. The nominating committee shall consist of one member from each division of the class.

Sec. 3. The chairmen of committees shall make a complete report of activities and finances at the first meeting after the said committee has stopped functioning.

Article VII. Dues.

CENTRAL CHURCH HAS OPEN HOUSE

Margaret Slattery Speaks On Earthquake and Voice

A large number of Tech men were present at Central Church last Sunday night to hear Margaret Slattery speak. Her subject was "The Earthquake and the Voice." She showed by an apt illustration that people who simply followed the mob and uttered the thought of the mob were not expressing their own ideas. She explained that the old idea of preventing people from hearing both sides of a question was out of date. The people wanted today are the ones who can hear both sides of an argument and make their own decisions intelligently.

The supposedly "new" ideas of youth of any period were shown to be simply old ideas expressed by new vocabularies. The terms used mean little but the ideas expressed are important. It was pointed out that no new, complete progress is made through the mob. The mass can only achieve mediocrity and the leadership coming from mediocrity can not rise above certain heights. Individuals to dare to break away from the mob are the only hope toward securing permanent progress.

Miss Slattery criticized college students for scornfully crying about church failures when they personally did nothing to improve themselves. Lasting good is only obtained by concerted effort by individuals to lift the mass of people.

JOKES

"Been slumming?"

"Yes, we've been slumming."

"What did you do that for?"

"We wanted to learn the new collegiate dances."

"Despite the crusade against it, hazing has not been abolished entirely. In some colleges students are forced to study."

Student: "What is the most dangerous weapon in any home?"

Pop Adams: "A package of old love letters."

She: "The universities turn out simply the cleverest men, don't they?"

He: "Absolutely—and its dam hard to get back in."

A Put Up Job

"You had to hold me up to do it," said the sweet young thing, after the big tall man had stolen a kiss.

"Y" Carnival Friday Night

Sec. 1. The dues shall be fifty cents (\$50) each semester.

Sec. 2. Said dues shall be paid within two months after the beginning of each semester.

Sec. 3. If said dues are not paid within the two months' period a fine of \$25 shall be added.

Sec. 4. Upon the recommendation of the treasurer and its adoption by the class, special assessments may be made upon the class.

Article VIII. Amendments.

Sec. 1. Proposed amendments, after being moved, shall be posted on the Institute bulletin boards for one week before being voted upon.

Sec. 2. A two-thirds affirmative vote of the class shall be necessary for the adoption of the amendment.

Sec. 3. Voting on an amendment shall be by secret ballot.

Respectfully submitted
KENNETH E. GLEASON,
WRIGHT H. MANVEL,
DONALD W. HASKINS,
GORDON WHITTUM.

NEWMAN CLUB WILL HOLD ITS MONTHLY MEETING

Pres. Earle To Give Address

The Newman Club will hold its regular monthly meeting tonight in the Commons Room of Sanford Riley Hall. The speaker at the meeting will be President Earle, who will address the club on a subject of interest to all. Before the meeting a supper will be served at six p. m. and the meeting will be called to order at 6:45 p. m. All Catholic students at Tech are cordially invited to attend.

TECH CARNIVAL

(Continued from Page 1, Col. 1)

added and now that alone is considered worth the full price of admission for this annual Tech Show.

Ralph Hodgkinson, '31, chairman; H. E. Hosmer, '31, in charge of publicity; W. T. Hawley, '31, in charge of decoration; E. C. Milde, '30, in charge of tickets; M. L. Price, '30, head usher; C. T. McGinnis, '32, stage manager.

Tickets may be obtained from:

SENIORS

Div. A—M. L. Price

Div. B—M. P. Finney
Div. C—P. E. Reynolds
Div. D1—E. C. Milde
Div. D2—C. S. Greco
JUNIORS

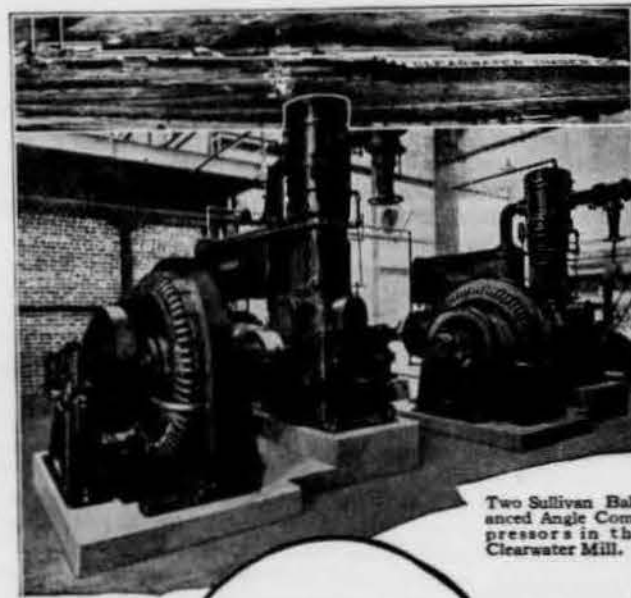
Div. A—E. D. Collins
Div. B1—R. Hodgkinson
Div. B2—G. W. Wilcox
Div. C—O. R. Underhill
Div. D—J. B. Tuthill
Div. E—I. S. White
Div. F—O. E. Mace

SOPHOMORES

Div. A1 and A2—A. B. Belcher
Div. B—L. D. Skuropat
Div. C1—A. C. Peterson
Div. C2—L. D. Greene
Div. D—L. C. Daniels
Div. E—J. R. Tinker
Div. F—R. F. Bye

FRESHMEN

Div. A—L. Jackson
Div. B—A. S. Yelle
Div. C—H. T. Jensen
Div. D—S. B. Sweetser
Div. E—A. E. Getz
Div. F—P. W. Tappan
Div. G—D. C. Hyde
Div. H—H. F. Lorenzen



Two Sullivan Balanced Angle Compressors in the Clearwater Mill.

where Air earns
profits in 10 ways—

makers of world-famous
"wasteless lumber" use
Balanced Angle Compressors

EIGHTY miles of lumber in eight hours! That is the capacity of the Clearwater Mill, of the Weyerhaeuser Lumber Company.

A trifle saved per thousand board feet, means a worthy dividend. Methods and machines are under rigid scrutiny. And air power by Balanced Angle Compressors is doing ten tasks.

Air controls seventy dry kilns, preparing new lumber for shipment in ten days. It pumps water, opens and closes boiler dampers, changes band saws, runs pneumatic tools.

Nineteen thousand sprinklers, and a fire alarm system, operated by air, protect the mill.

For the management knows that air power is clean, and flexible. They buy it and apply it scientifically. And—like leaders in every industry—Weyerhaeuser uses Balanced Angle Air Compressors.

Let us send you Booklet 83-J

SULLIVAN

MACHINERY
COMPANY
518 Wrigley Bldg.
CHICAGO



MAIL CHRISTMAS PARCELS EARLY

Postmaster Healey Explains "Mail Early" Program

Postmaster Healey has kindly explained to Worcester Tech men the "Mail Early" program of the Worcester postoffice.

The office wishes to see every Christmas parcel and greeting card delivered on time so that they may give their full measure of happiness and cheer. As all postoffices close on Christmas Day, all mail must be delivered December 24. In order to accomplish this, they are trying to get advance mailing through the "Christmas Greeting Station."

Christmas cards received at these stations are held and timed for delivery. Their schedule provides for dispatch so as to reach the destination on time; not a week ahead nor a day late. So address and stamp your cards, tie them in bundles ("city" and "out of city") and bring them to one of the Christmas Greeting Stations at the main office, Franklin Square or to Station A, 93 Main street. Do not put them in letter boxes for they will then be mailed at once.

The Christmas parcel calendar is as follows:

Dec. 13—For delivery California, Washington, Oregon and the Pacific coast.

Dec. 14—For delivery in Montana, Wyoming, Colorado and the Rocky Mountain States.

Dec. 16—For delivery in the Dakotas, Minnesota, Illinois, Mississippi, Florida and the Mid-West and Southern States.

Dec. 17—For delivery in New York, Pennsylvania, New Jersey, Delaware, Maryland and Virginia.

Dec. 19—For delivery in New England States.

Dec. 20—For local (Worcester) delivery.

CIVIL SERVICE TO GIVE EXAMS

Position of Junior Patent Examiner To Be Filled

The United States Civil Service Commission announces the following open competitive examination:

JUNIOR PATENT EXAMINER

Applications for junior patent examiner must be on file with the Civil Service Commission at Washington, D. C., not later than February 18, 1930.

The examination is to fill vacancies in the Patent Office, Washington, D. C.

The entrance salary is \$2,000 a year. Higher-salaried positions are filled through promotion.

The duties are to perform elementary scientific or technical work in the examination of applications for patents; to see what the alleged inventor thinks he has produced that is new; and to see that the disclosure is complete; and to investigate the prior art as represented by patents already granted in the United States and various foreign countries and by the descriptions in technical literature.

Competitors will be rated on physics, technics, mechanical drawings, and the optional subject or subjects chosen. The optionals are (1) mechanical engineering, (2) physical and organic chemistry, (3) chemical engineering, (4) civil engineering, (5) electrical engineering. French or German, or both may also be included if desired. Qualifying in the language test increases the probability of appointment.

Full information may be obtained from the United States Civil Service Commission, Washington, D. C., or from the secretary of the United States Civil Service Board of Examiners at the post office or customhouse in any city.

COSMOPOLITAN CLUB HELD MEETING DEC. 4

Nizamoff Talks On Macedonia

The third regular meeting of the Cosmopolitan Club was held last Wednesday in the lounge of Sanford Riley Hall at seven P. M. As is the custom for various members to give an account each week of their respective countries, John Nizamoff gave an account of Macedonia. This country, the birthplace of Alexander the Great was discussed by Mr. Nizamoff in relation to mode of living and habits and manners of the country people.

Refreshments were served at the end of the lecture to the fairly large audience that was present.

SKATING RINK

(Continued from Page 1, Col. 5)

enthusiasts get organized and it is expected that he will again assist in forming a team.

One thing that was mentioned in the A. A. meeting was the removal of snow from the rink. Some plan will have to be arranged so that the Freshmen in the dormitory can assist in clearing away the snow. The fraternities will also be called upon to do their part in the work if the rink is to be made a success.

TECH NATATORS PROMISE A SUCCESSFUL YEAR

Fourth Place on Team Undecided

With a team of four veterans and a new well-known coach who has been working diligently with the natators, Worcester Tech should make its presence felt in the college swimming world. Worcester Tech has had very excellent teams for the past two or three years and this year should be a banner one for the Engineers. The team will consist of "Joe" Rogers, captain of the team, "Joe" Tawter, "Ray" Holcomb and either John Tinker or John Osipowich. Last year Osipowich had to work hard to place before John Tinker and this year they seem to be even more closely clasped. Tinker has been working diligently and has shown a great deal of improvement and a great deal is expected from him. Osipowich was on the football squad this fall and many have predicted that football practice would make him less expert in swimming. However, it will be nip and tuck for these two men and no one can tell which will represent the fourth place on the swimming team. Tawter has improved in style and he can be counted upon to gain points for the Tech team in his specialty. Rogers and Holcomb are also in excellent condition and they will give any opponents plenty of opposition.

There have been no changes in the season's schedule and the first meet will be held in the Fuller pool on January 10 at 8.00 p. m. Union is the first opponent for the Engineers and a good race is promised for Union has a well-balanced, well-trained team.

William Newbold, manager, has issued an urgent call for competitors. Sophomores are urged to respond to this call for swimming is a very desired managementship. Several trips are included in the schedule and the season is very short. Any men who are interested should report in the Cynasium on Wednesday at 4.15 o'clock. Newbold will meet these men in the balcony above the pool and will explain to them their duties and the work which they will be required to do.

THE COLLEGE "Y"

Annual Tech Carnival
in the W. P. I. Gym
FRIDAY, DEC. 13
ADMISSION 75 CENTS

INTERFRATERNITY DANCE PLANS ARE COMPLETED

The Interfraternity Dance committee has finally completed the major arrangements for the dance which will be held in the Bancroft Ballroom on January 17. Hughie Connors and his Bancroft Hotel orchestra will furnish the music. This dance has always had the reputation of being one of the best dances of the year and the committee plans to make this year no exception. At a recent meeting it was decided to place the price of admission at \$3 as usual, but owing to the small membership in the fraternities, caused by postponing rushing, the percent of each fraternity taxed will be raised. In former years two-thirds of the active membership of each fraternity was charged for as many tickets. This year seventy per cent of the members of each fraternity will be required to buy tickets. In this way the committee knows in advance just how much money can be spent. It is planned to secure more elaborate program cards than were had last year and in every respect the dance should top the social season this winter. Everyone is looking forward to this social event and its success is assured.

INTERFRATERNITY RELAY RACES ARE UNDER WAY

P.S.K. - L.X.A. Twice Winners

The interfraternity relay races got underway last Wednesday afternoon when Alpha Tau Omega handed Theta Chi a defeat, Lambda Chi defeated Sigma Alpha Epsilon, and Phi Gamma Delta outclassed Sigma Omega Psi. Phi Sigma Kappa was scheduled to run Theta Upsilon Omega but the race was postponed and held on Thursday, Phi Sigma Kappa emerging victorious.

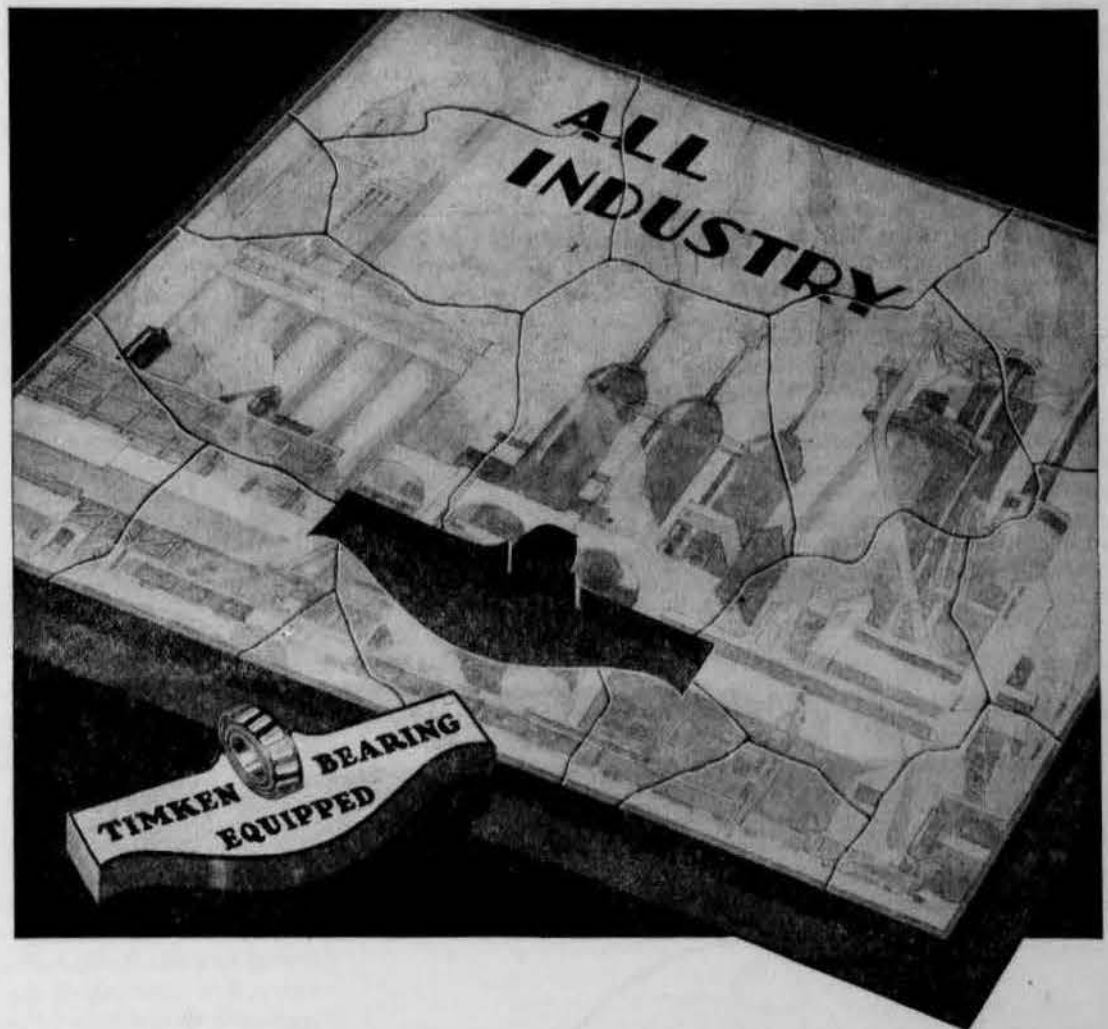
The second set of races was held on Friday and in the first race Phi Sigma Kappa won over Alpha Tau Omega; Theta Upsilon Omega defeated Theta Chi in the second event, while Sigma Alpha Epsilon bettered Sigma Omega Psi, and Lambda Chi Alpha won over Phi Gamma Delta.

After the first week of running Phi Sigma Kappa and Lambda Chi Alpha headed the scoring list, neither team having been defeated. Theta Chi and Sigma Omega Psi lost both of their races while Alpha Tau Omega, Phi Gamma Delta, Theta Upsilon Omega and S. A. E. each lost one.

INTERFRATERNITY COUNCIL WILL HOLD MEETING

There will be a regular meeting of the W. P. I. Interfraternity Council tonight in the E. E. Building. Eugene Center will give the official report on the Interfraternity Conference while the other members who attended the Conference will tell the points of the meeting that impressed them most. It is expected that due to the approaching rushing period there will be discussions on the rules. Chairman Cole of the Interfraternity Dance Committee will report on the proceedings of the committee and probably other topics will be brought up.

In addition to this it is anticipated that Francis B. Townsend, chairman of the Interfraternity Relations Committee, will report on the work of that committee. During the past month the committee has been studying means by which it might be arranged that members of the seven fraternities could exchange dinner engagements with members of the other fraternities. A plan was roughly drawn up and discussed at a previous meeting but circumstances prevented its adoption at that time.



Solving The Production Puzzle

What puzzles Industry most is Waste. The moment "Timken Bearing Equipped" is placed into the picture, the bearing problem is solved—Waste meets its Waterloo; friction loses its grip; lubricant becomes a matter of little or no consequence; machinery stays young; costs catapult downward; profits soar skyward—for Timken is the one bearing that does all things well.

Timken Bearings will figure even more prominently in future produc-

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THE TIMKEN ROLLER BEARING COMPANY, CANTON, OHIO

TIMKEN Tapered Roller BEARINGS

TECH MEN MAKE VISIT TO MUSEUM

Small Number Take Advantage Of Opportunity

Through the courtesy of Prof. Jerome W. Howe of the Civil Engineering Dept., a tour of the Worcester Art Museum was made last Tuesday evening. A fairly large number of students with sufficient aesthetic appreciation to take advantage of this unusual opportunity were treated to the fine collection of art treasures possessed by the Worcester museum, whose notable features were pointed out to the group by Prof. Howe and a charming young member of the museum staff.

A fine display of European arms and armor from the John W. Higgins collection was first inspected. The origin of armor was traced from pictures of warriors with shields on an ancient Etruscan tomb. The transition through the chain mail of the Middle Ages to the final development of armor was illustrated with fine specimens in each case. A Gothic suit was made especially interesting when its features were compared with those of Gothic architecture. Certain details about armor such as the methods of design etching, weight of armor and its effect upon the wearer, and characteristic features of the different types were also pointed out.

The remainder of the tour was featured by a visit to the Italian room which contains the most valuable of the museum's art treasures. The fine balance of mass and color and curious characteristics of the various schools were here made apparent. The balance of the tour included an inspection of George Bellow's "The White Horse" and a group of exquisite Norwegian tapestries, a recent acquisition by the museum.

The comments during and after the tour indicated the enthusiasm and interest felt. Many thanks are certainly due Prof. Howe for offering such a splendid opportunity to develop the cultural side of our education. A trip to another of Worcester's museums is being planned for the near future and judging from the success of the initial tour a large attendance is expected.

CHEM. NOTES

The Skeptical Chemists held a meeting in the Salisbury Laboratories last Tuesday night. Mr. Allan E. Laurence, a post-graduate in chemistry, was the speaker and gave an unusually interesting talk on "Filtration." He illus-

TRUSTEE OF WORCESTER TECH PASSES AWAY

Hon. J. Logan Life Member of Board

In the recent death of the Honorable James Logan the Institute has lost a valued friend. Dr. Logan passed away Saturday night, November 31, at his home on 222 Salisbury Street. The funeral was held last Tuesday afternoon at one o'clock with many of the staff and undergraduates of the Institute attending the rites. Out of respect to Dr. Logan, the flag was flown at half-mast until after the funeral.

The Honorable James Logan became a member of the Corporation of the Worcester Polytechnic Institute in 1898 as a trustee. He remained on the board ever since, being made a life member in 1920. His services were constant and valuable as a member of the Corporation Committee on Instruction for many years. Dr. Logan was always a friend of the Institute and was especially zealous and helpful in all matters relating to the welfare of its undergraduates. In recognition of his valuable services to the Institute, Dr. Logan was awarded the honorary degree of Doctor of Engineering at Commencement, June, 1926.

In addition to his connections with the Institute, Mr. Logan was very active in civic affairs in Worcester. He served the city as mayor, as a member of the Parks and Recreation Commission, and in many other ways. At the time of his death Mr. Logan was also president of the U. S. Envelope Co.

trated his lecture by lantern slides and then conducted an experiment to demonstrate the efficiency of modern methods of filtering.

In this experiment 500 c.c. of sugar solution were put into each of two filters and to one of them were added a few grams of a substance intended to accelerate the process. At first the plain solution appeared to filter the more rapidly; but soon the solution which had been treated began to go more rapidly and it was completely filtered before the other solution was half finished.

After the lecture Dr. Jennings gave some additional information on the subject.

Last week Professor Thomas K. Sherwood of the Chemistry Department read a paper before the annual convention of the American Institute of Chemical Engineers which was held in Raleigh, North Carolina. He returned to Worcester on Friday.

E. E. NOTES

Rewiring of the entire power supply in the E. E. building will begin in a few days. It will be done according to the most modern methods and will take the place of the present wiring which has been in since the building was erected. The new system, when completed, is expected to be much more efficient than the present system and will require about a year's time to install, as it has to be done without disturbing the present system.

The E. E. Department this summer received a self-starting synchronous motor which is being used by the civil, mechanical and electrical departments, and gives much better results than were obtained before. It is a 10 H.P. General Electric motor with the latest development of starting compensators and has a thermal overload release.

The first of a series of educational films was given last Friday at 4.15 p. m. in the E. E. lecture hall. The films are to be shown under the direction of Professor J. O. Phelon, every other week on Friday. Three or four years ago a series of similar educational pictures started late in the season.

C. WRIGHT WAS DELEGATE TO N. Y. MEETING

Charles L. Wright, member of the Senior Class and president of the student branch of the American Society of Mechanical Engineers, was the Institute representative at the annual meeting of the society which was held in New York City December 2-5. A get-together was held the afternoon of the first day while a reception by Charles Piez, president-elect of the society, was held the second day. On Wednesday morning supervised plant inspection was held followed by a luncheon with council members, after which the undergraduates were addressed by the president-elect and three prominent members of the society.

The Worcester Section of the A. S. M. E. will meet on Wednesday, December 11, at Faraday Hall, Worcester Electric Light Company, located at 63 Faraday Street. Mr. E. Sieger of the Carboly Company of New York will give a talk on "Carboly and Its Uses." Remarkable developments are being obtained in many industries by the use of Carboly and so the subject is of great interest.

TECH QUARTET SINGS AT N. Y.

Musical Association Gives First Concert

Last Thursday the W. P. I. quartet, composed of John Henry Hinchliffe, '32, Ralph Hodgkinson, '31, Leighton Jackson, '33, and John Church, '33, went to New York to sing at the banquet held by the New York Alumni Association. The men left Wednesday noon and returned Friday morning.

On November 26th the Musical Association gave a concert at Odd Fellows' Hall. Three individual acts received much applause. C. H. Covell, '33, gave some sleight-of-hand tricks and A. S. Yelle entertained with a skillful tap-dance. Xylophone solos by H. W. Trulson were enjoyed very much, also. Under the leadership of W. R. Purcell, '30, the Banjo Club played several numbers in fine manner. After the concert dancing was enjoyed by all. The first opportunity for Tech men to hear the Musical Association will come at the Carnival this Friday night.



A NEW ERA IN STEEL CONSTRUCTION

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The oxy-acetylene welded joint is as strong as the members themselves. Tough and ductile, it combines those characteristics which assure a dependable structure fully capable of meeting the severe loads and stresses of modern building. There is the added advantage that construction by the oxy-acetylene process is practically noiseless. Oxy-acetylene cutting, too, is indispensable in this field.

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